

FIG. 1

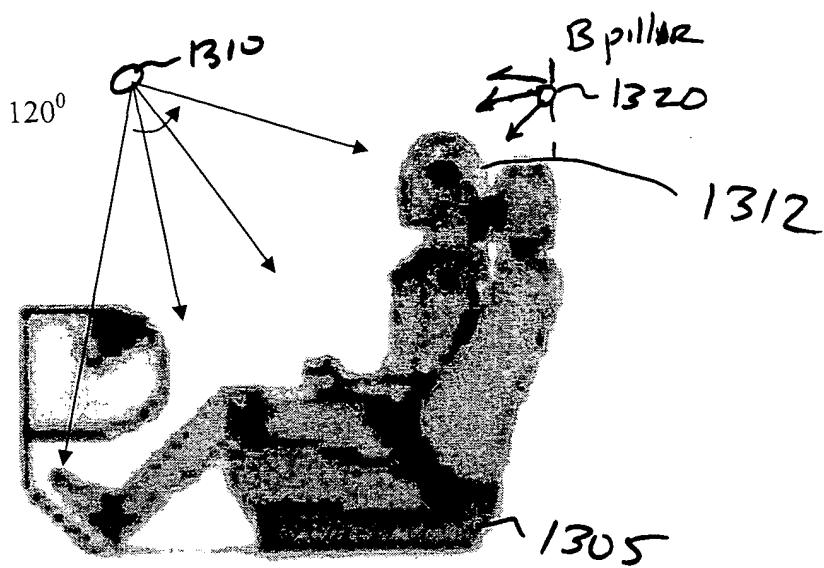
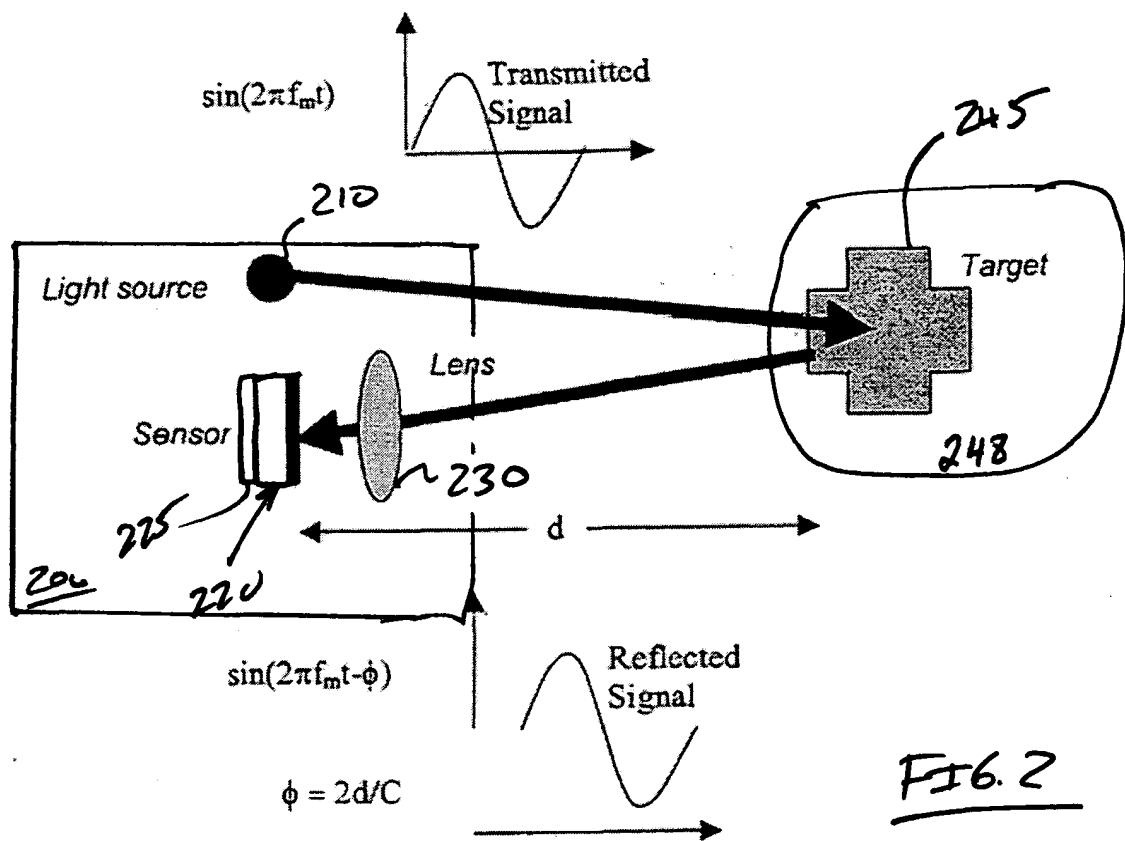


FIG. 13



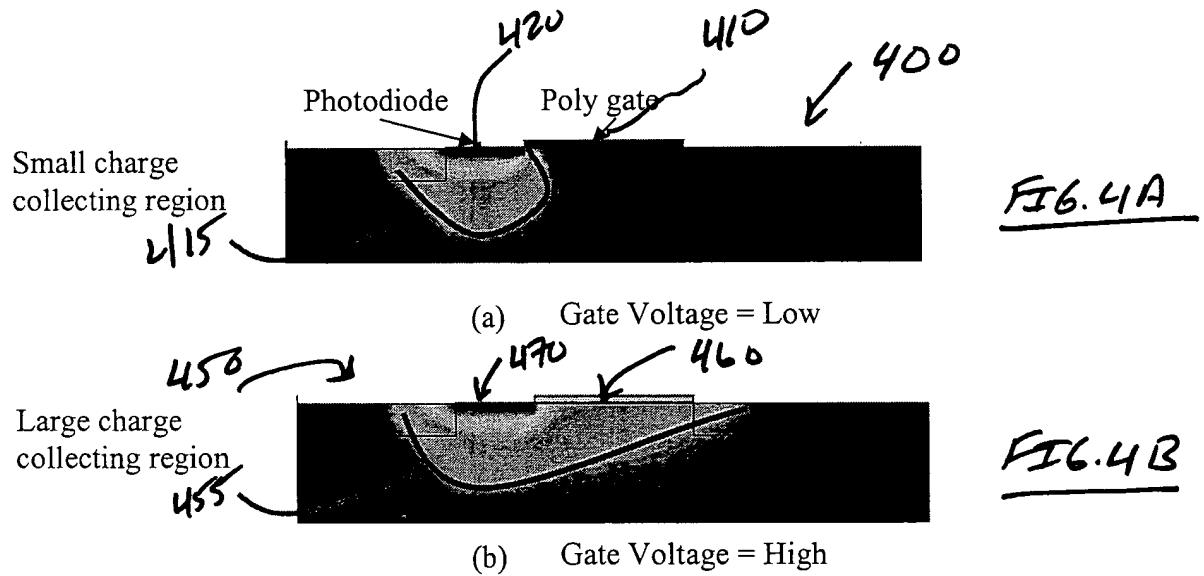
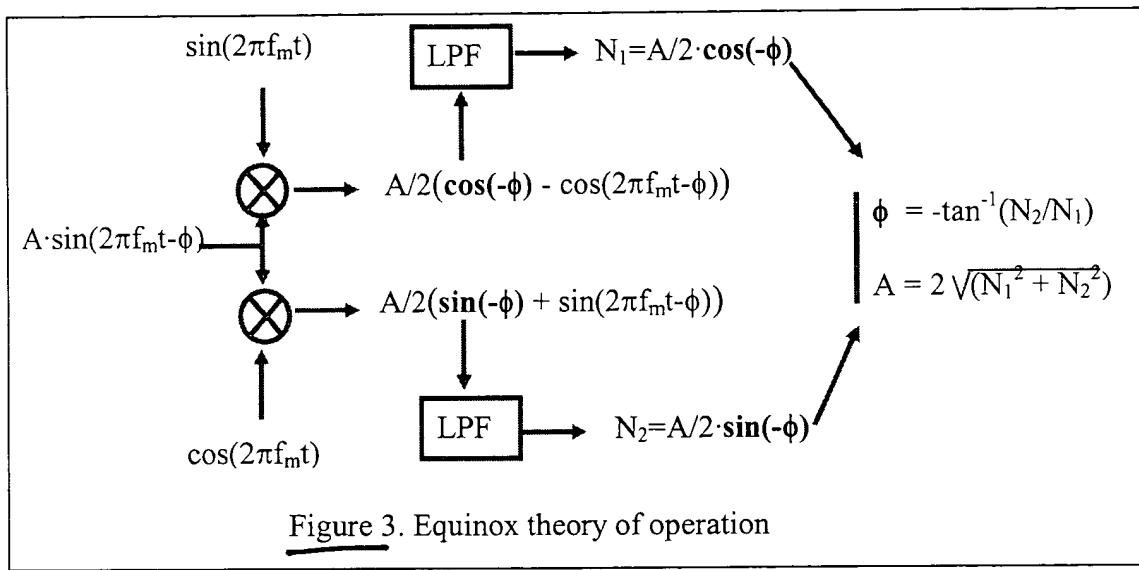


Figure 4. Photodiode quantum efficiency modulation structure where charge collection area is modulated as a function of gate voltage

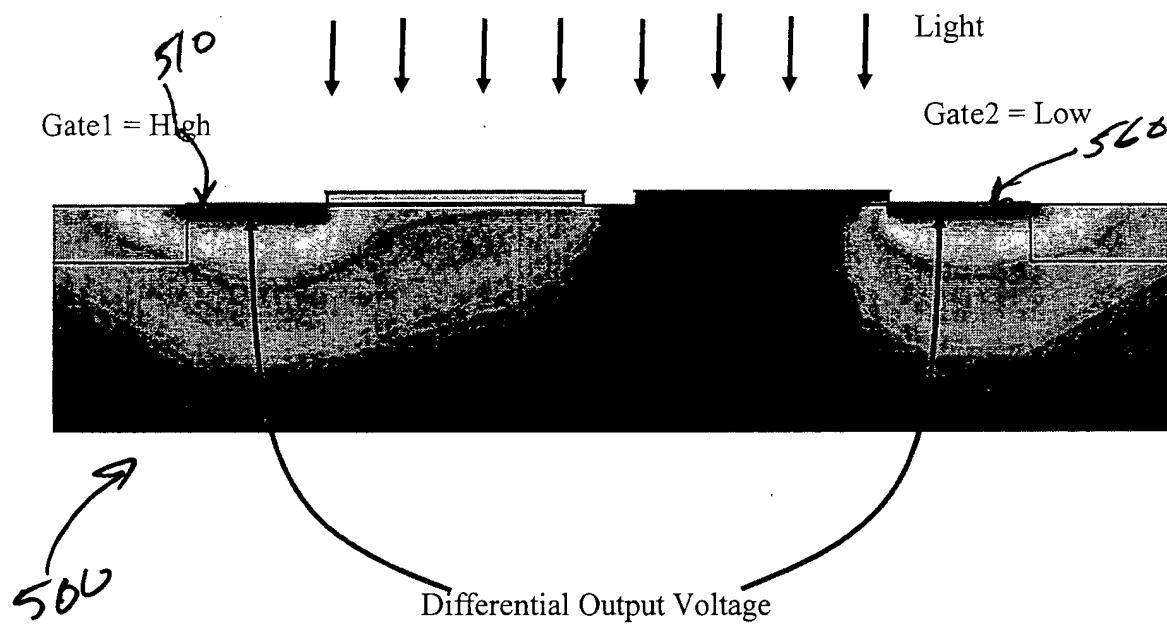


Figure 5. Differential QE modulation pixel structure.

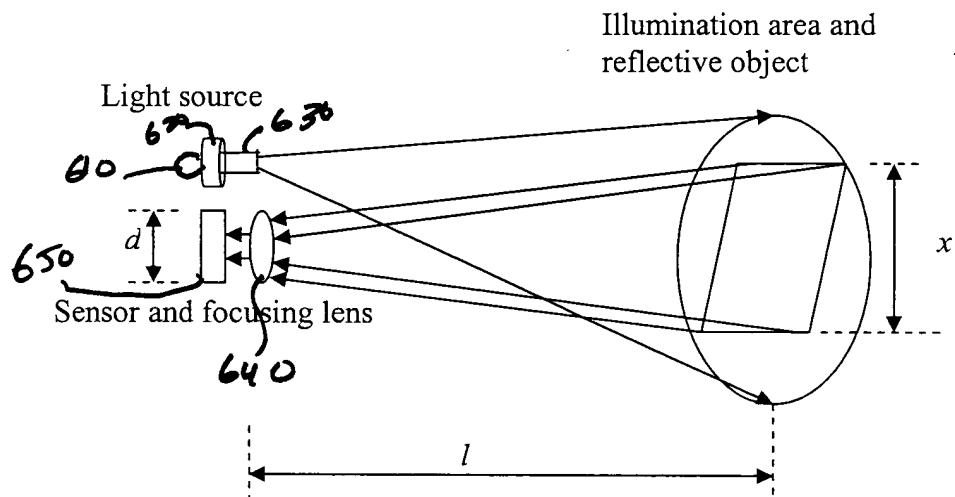


Figure 6. Optical system

Reflected Light

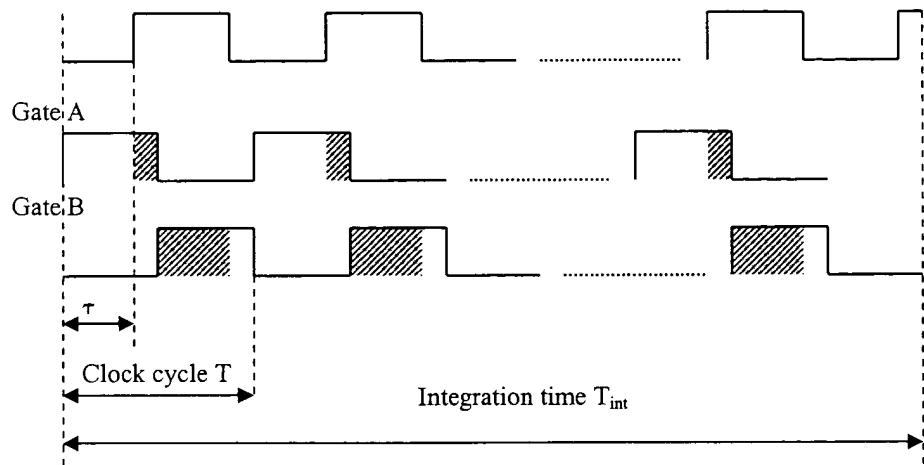


Figure 7. Charge collection model with differential QE modulated photodiodes; shaded area represents the active charge collection.

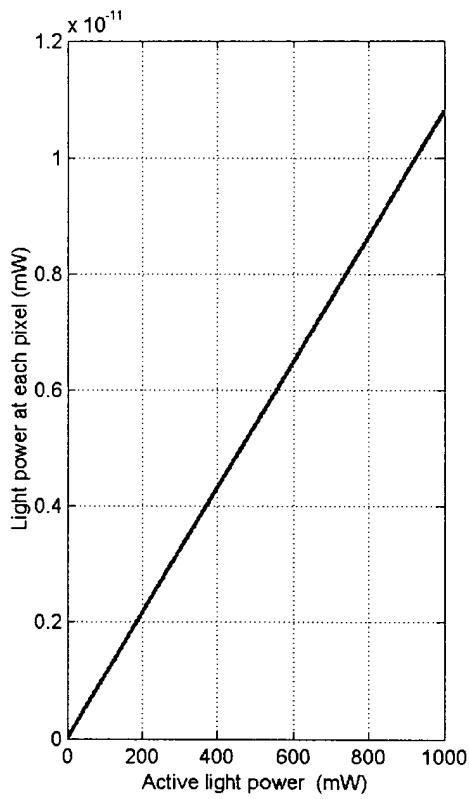


FIG 8A

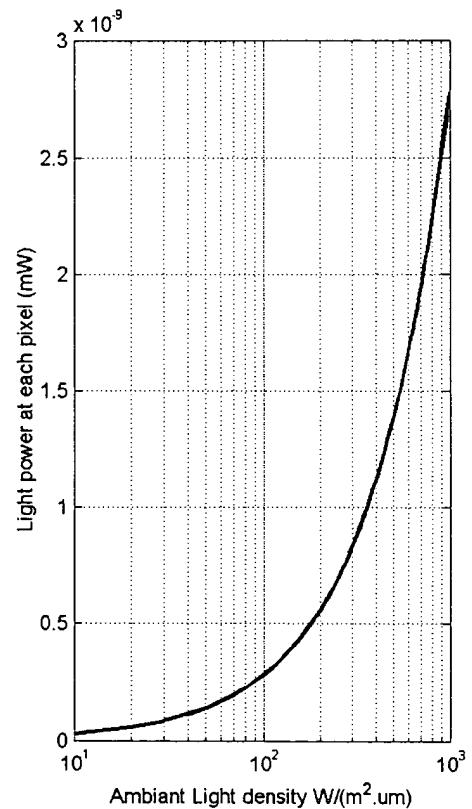


FIG 8B

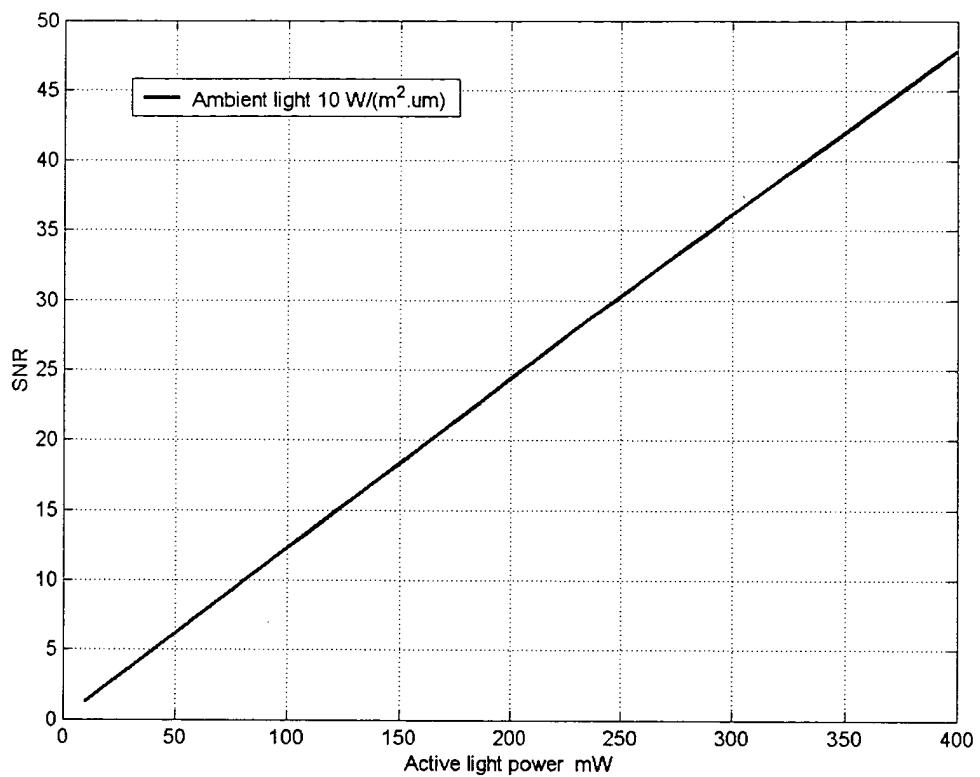


FIG. 9

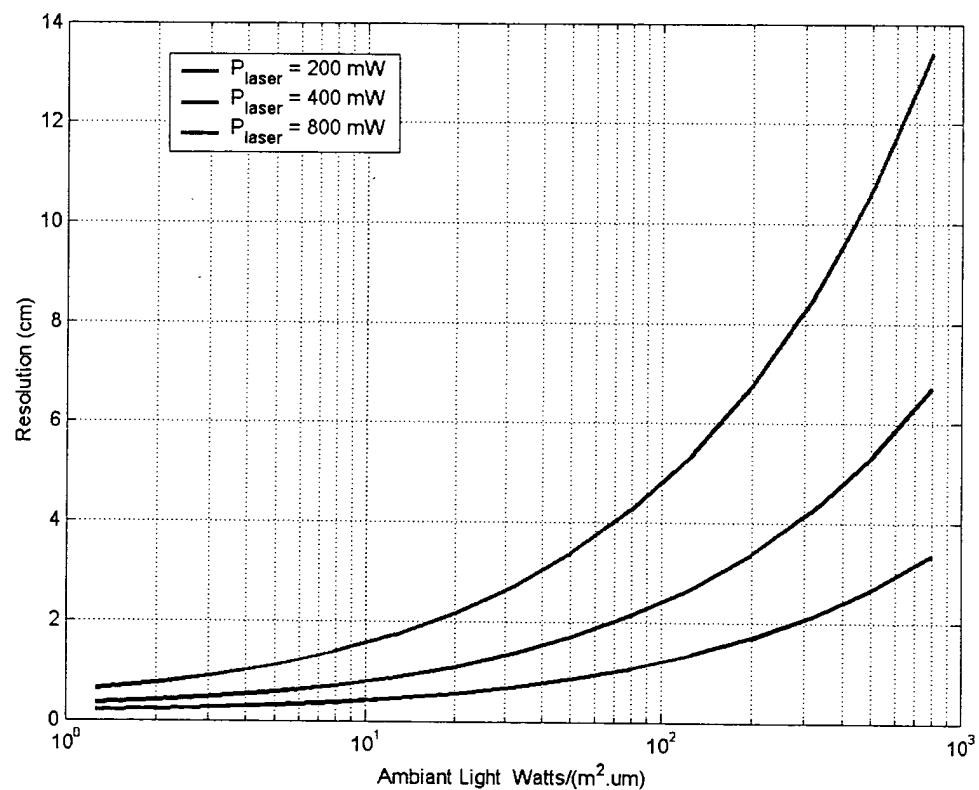


FIG. 10

Passband center wavelength change

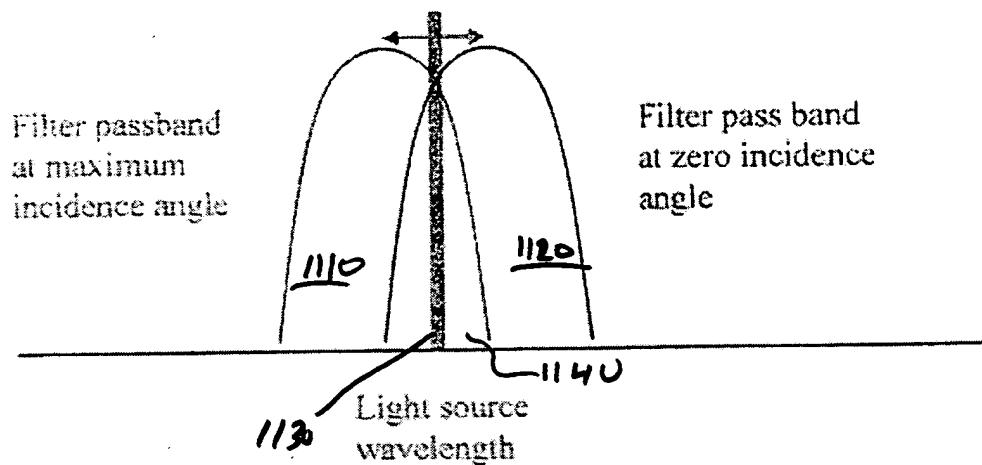


FIG. 11

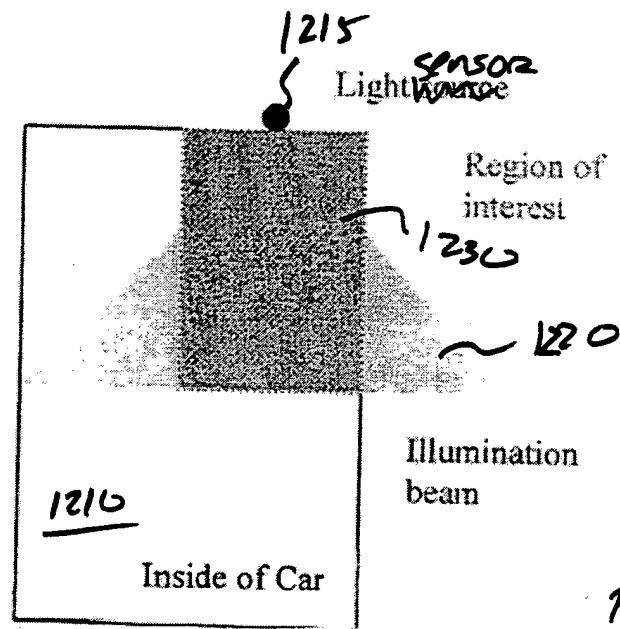


FIG. 12

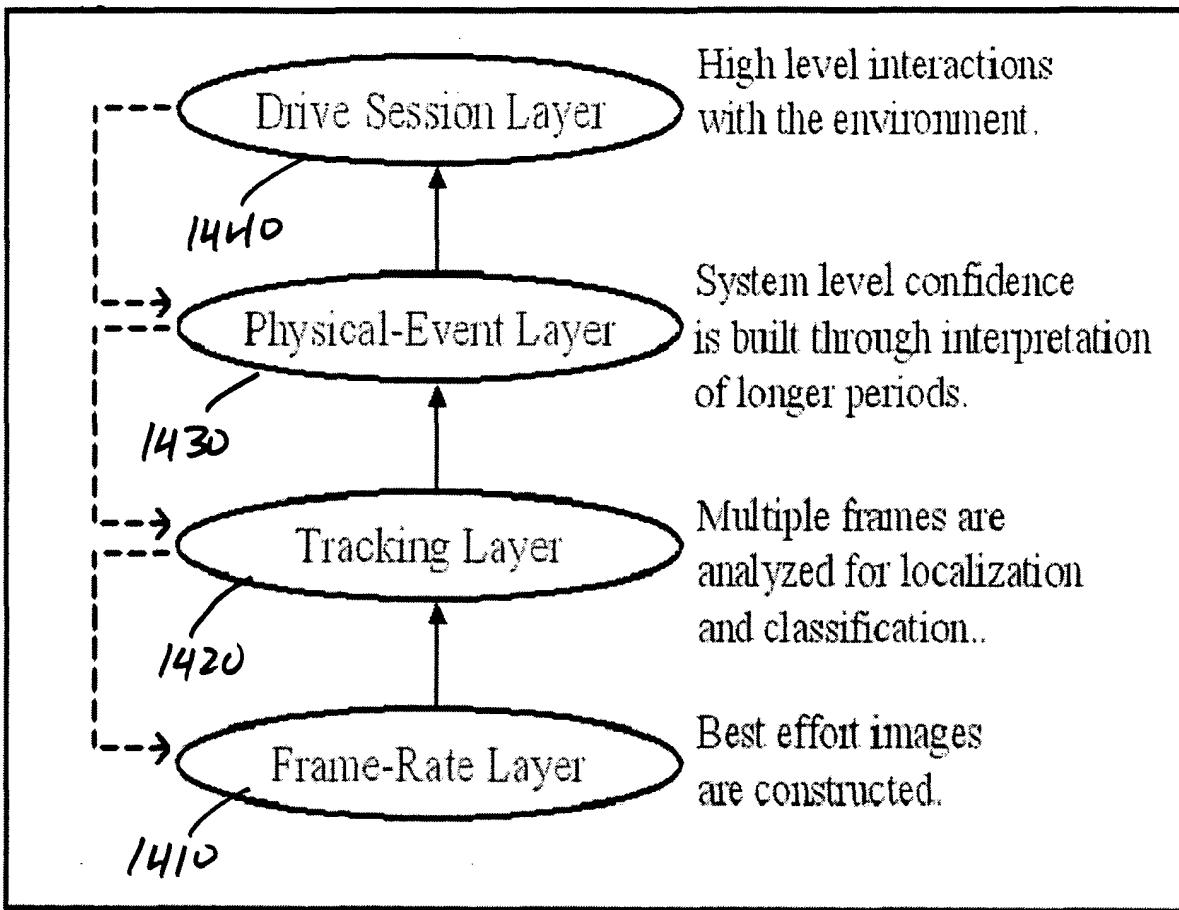


FIG.14

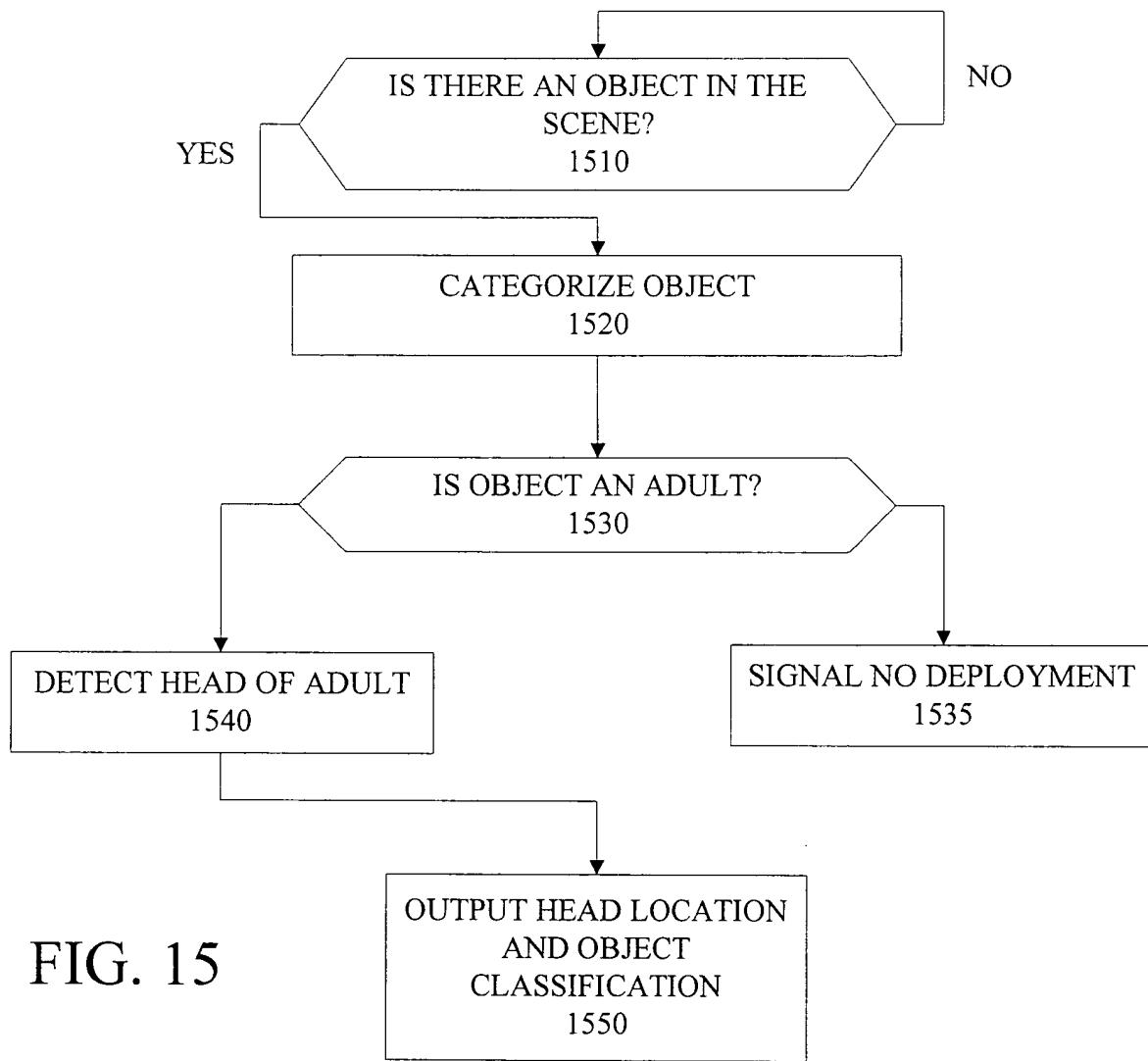


FIG. 15

FIG. 16

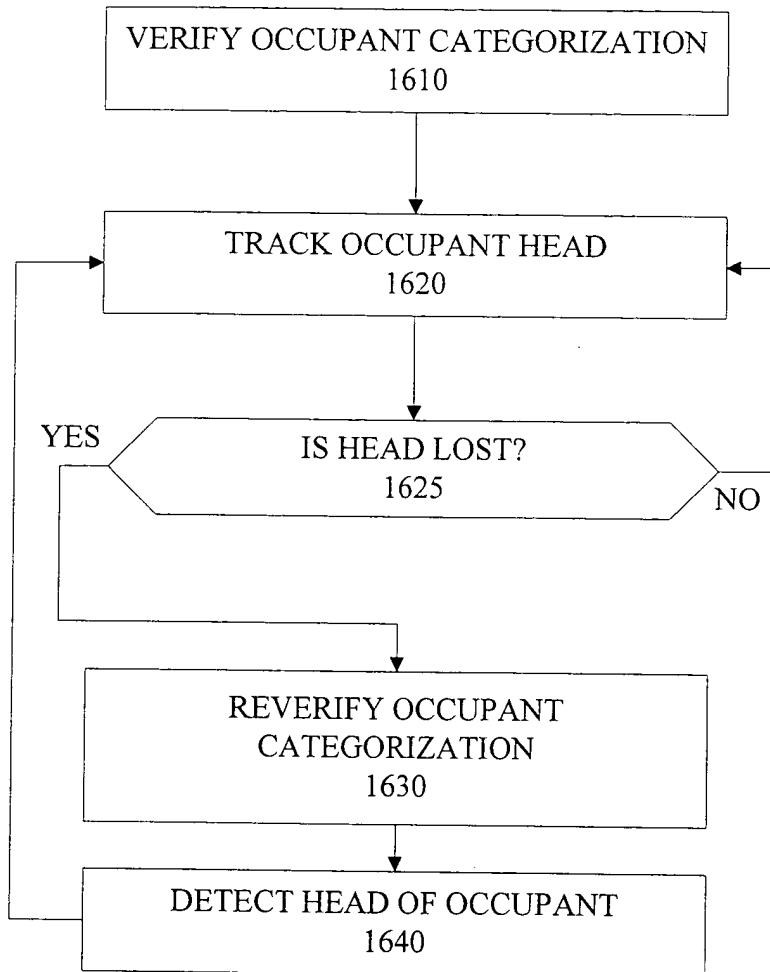
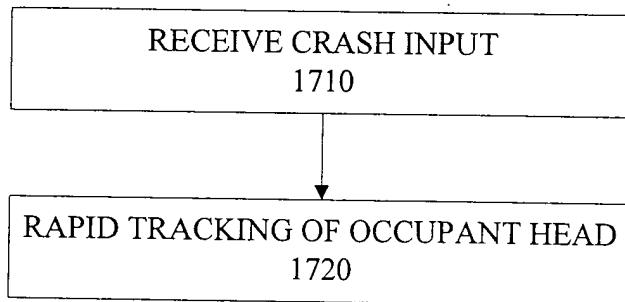


FIG. 17



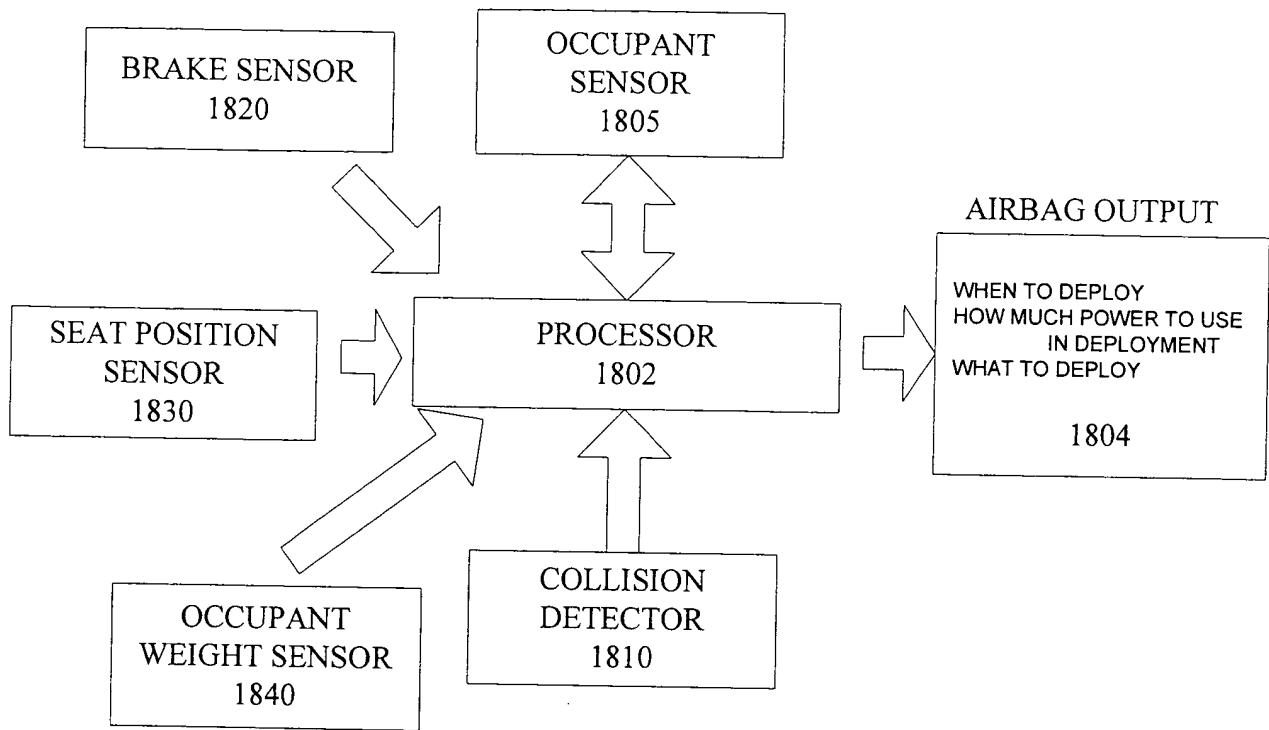


FIG. 18